



Airco DIET has been involved in more than 100 DIET (Dry Ice Expanded Tobacco) and Impex Projects worldwide presenting a +95 % uptime with a dry yield above 98.5 % through the plant. Many of these have been turn-key projects inviting us to continue refining our processes.

We are a flexible organization with matchless expertise within our field. Airco DIET is the global leader within Tobacco, Expansion and CO₂ technology.



360° added value



PIPE TOBACCO BLENDS



SHISHA TOBACCO BLENDS



CIGARETTE TOBACCO BLENDS



CIGAR TOBACCO BLENDS



RYO TOBACCO BLENDS



MYO TOBACCO BLENDS

360° TESTED TECHNOLOGY

Tobacco expansion is achieved in normal primary process by the absorption of water into the cell structure. Afterwards, the water is removed by applying heat causing the water to expand, evaporate and expand the cell structure to increase the filling value of the tobacco.

This approach has limitations in terms of filling value achievement and, therefore, by employing a pressure/vacuum technology the IMPEX process can provide a much higher level of expansion by impregnating the tobacco with isopentane and afterwards removing it with steam. In terms of leaf utilization, this process offers 'added value' over normal processing techniques.



Benefits and savings

- The inclusion of high filling value IMPEX expanded tobacco enables product manufacturing standards to be achieved whilst using lower tobacco weight and providing real cost savings on tobacco usage.
- Using less tobacco significantly helps to design lower yielding products.
- IMPEX inclusion levels can be set to meet both cost and product design criteria.
- There is no limit to the number of skids running in parallel.

World leading partner in the IMPEX process and 360° relevance to the entire tobacco industry.

IMPEX tobacco expansion system expands all types of cigarette tobacco and cigar tobacco whilst providing quality expanded tobacco. IMPEX tobacco benefits from little or no colour change, no loss of nicotine, only minimal loss of

sugar, no system degradation and retention of strand length.

With cigarette manufacturers under regulatory as well as financial pressure, expanded tobacco continues to be an

attractive commodity. It is an important tool in the design of low tar products and a path to savings via reduced tobacco usage.



IMPEX expanded tobacco is a significant cigarette design tool in the changing tobacco market, both in terms of the products you can offer and the cost savings that can be achieved. IMPEX expanded tobacco enables development of lower yielding new products with acceptable consumer smoking performance, as well as the redesign of existing products to meet market demands or regulatory pressures. This is possible across all product styles.

Excellent end quality
IMPEX expanded tobacco is suitable for Cigarette, Cigar, RYO and MYO product applications utilizing the increased volume per weight of tobacco delivered by the process.

In Secondary (making) Production, IMPEX expanded blends perform very well, providing excellent end quality, or even an opportunity to improve your standards. End quality is maintained through the packing process where incorrectly filled percentage and loose end fall out tests easily meet quality standards.

Added value
Overall product quality is maintained or enhanced when including IMPEX expanded tobacco in the product. Up to 360 kg per batch with a normal 90 minutes cycle time. All the above product benefits can be achieved whilst using lower tobacco weights in the product.